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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/517,865	12/10/2004	Ikuo Nakazawa	1232-5560	9016
27123 MORGAN & 1	3 7590 01/15/2008 PRGAN & FINNEGAN, L.L.P.		EXAMINER	
3 WORLD FINANCIAL CENTER			CAIN, EDWARD J	
NEW YORK,	NY 10281-2101		ART UNIT PAPER NUMBE	
			1796	
			NOTIFICATION DATE	DELIVERY MODE
			01/15/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PTOPatentCommunications@Morganfinnegan.com Shopkins@Morganfinnegan.com jmedina@Morganfinnegan.com

		Application No.	Applicant(s)			
		10/517,865	NAKAZAWA ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Edward J. Cain	1796			
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAISIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication, period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tinuity will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed on					
′=	his action is FINAL . 2b)⊠ This action is non-final.					
3)						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4) Claim(s) 1-21 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
· · · · · · · · · · · · · · · · · · ·	6)⊠ Claim(s) <u>1-20</u> is/are rejected.					
7) Claim(s) <u>21</u> is/are objected to.						
8)∟	Claim(s) are subject to restriction and/o	r election requirement.				
Applicati	on Papers					
9)[The specification is objected to by the Examine	r.				
10)	The drawing(s) filed on is/are: a) acc	epted or b)☐ objected to by the	Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correct					
11)	The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.			
Priority (ınder 35 U.S.C. § 119					
-	Acknowledgment is made of a claim for foreign ☑ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a	i)-(d) or (f).			
1.⊠ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the prior	•	ed in this National Stage			
	application from the International Bureau	, , , ,				
* 5	See the attached detailed Office action for a list	of the certified copies not receive	ed.			
	ı: .					
Attachmen	et(s) ce of References Cited (PTO-892)	4) 🔲 Interview Summary	v (PTO-413)			
2) Notice	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	Date			
	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date <u>12/10/04</u> .	5) Notice of Informal I 6) Other:	Patent Application			

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 7 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 7 recites a change from lyophilic to lyophobic twice. This is redundant and therefore indefinite.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 3, 5, 6, 8, 12-14, and 16-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Akers, JR. et al.

Akers, JR. et al disclose polymer encapsulated pigment suitable for use as ink in ink jet printers (abstract). These pigments are taught as prepared by dissolving block copolymers in solvent, introducing a pigment and driving off solvent (paragraphs 18-20). The step of driving off solvent is seen as meeting applicants' limitation to a change in concentration stimulus. Agglomeration is seen as inherently resulting when a solvent is removed from a solution or slurry.

Application/Control Number:

10/517,865 Art Unit: 1796

Regarding instant claims 14 and 16, a typical ink jet printing process is seen as occurring by agglomeration of ink solids upon evaporation (change of concentration) of the dispersing medium.

Regarding instant claims 17-19, no limitations on the apparatus are seen which distinguish it from typical printers known to the art and referred to by the reference.

Claims 1-17 and 20 are rejected under 35 U.S.C. 102(e) as being anticipated by Berge et al.

Berge et al disclose micellar compositions comprising block copolymers encapsulating pigments (abstract). The block copolymers taught as suitable include those comprising vinyl ether monomers and those having oxyalkylene side chains (column 8, lines 41-65) and polydispersities meeting applicants' limitation (column 14, lines 30-36). These compositions are taught as suitable for producing inks (column 18, line 17).

The micellar compositions are taught as prepared from solutions of the block copolymers with added colorant (see examples).

The micelles of these compositions are taught as encapsulating dyes and pigments. This encapsulation process is seen as equivalent to applicants' claimed agglomeration.

The recitation of the use of these compositions as inks is seen as inherently teaching an imaging process through which agglomeration of micelles occurs upon drying of the ink.

10/517,865 Art Unit: 1796

Claim 21 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward J. Cain whose telephone number is (571) 272-1118. The examiner can normally be reached on M-F, 10:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Edward J. Cain Primary Examiner

Art Unit 1796 /